

Figures

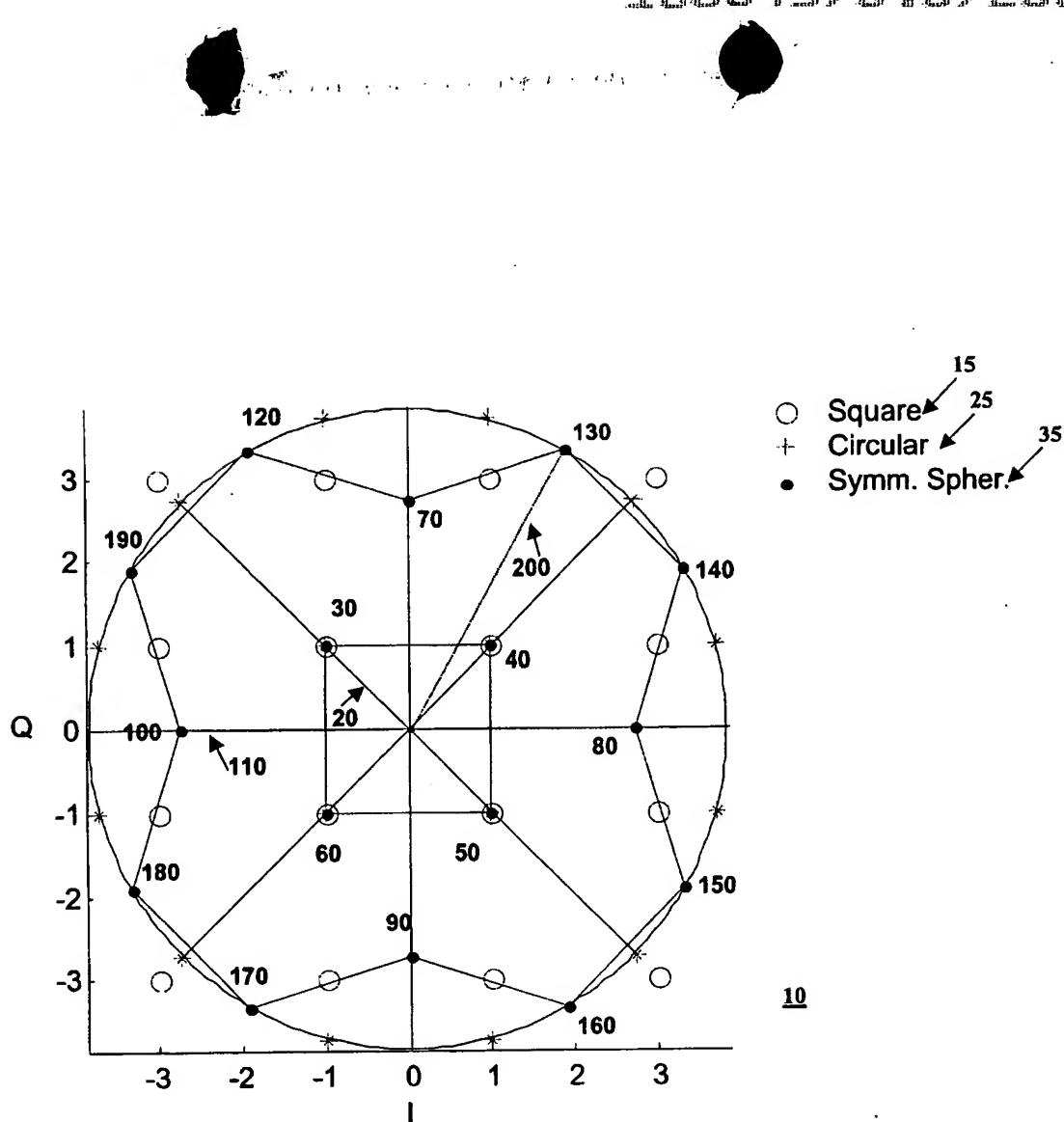


FIG. 1

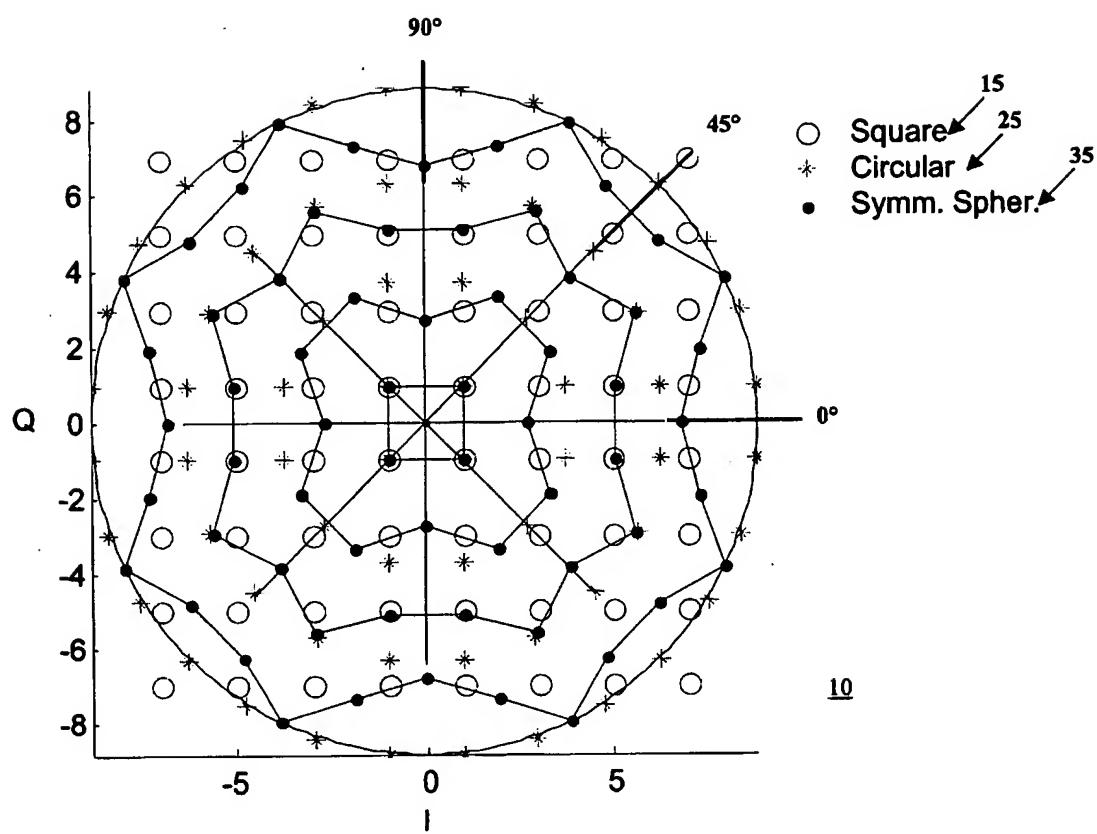


FIG. 2

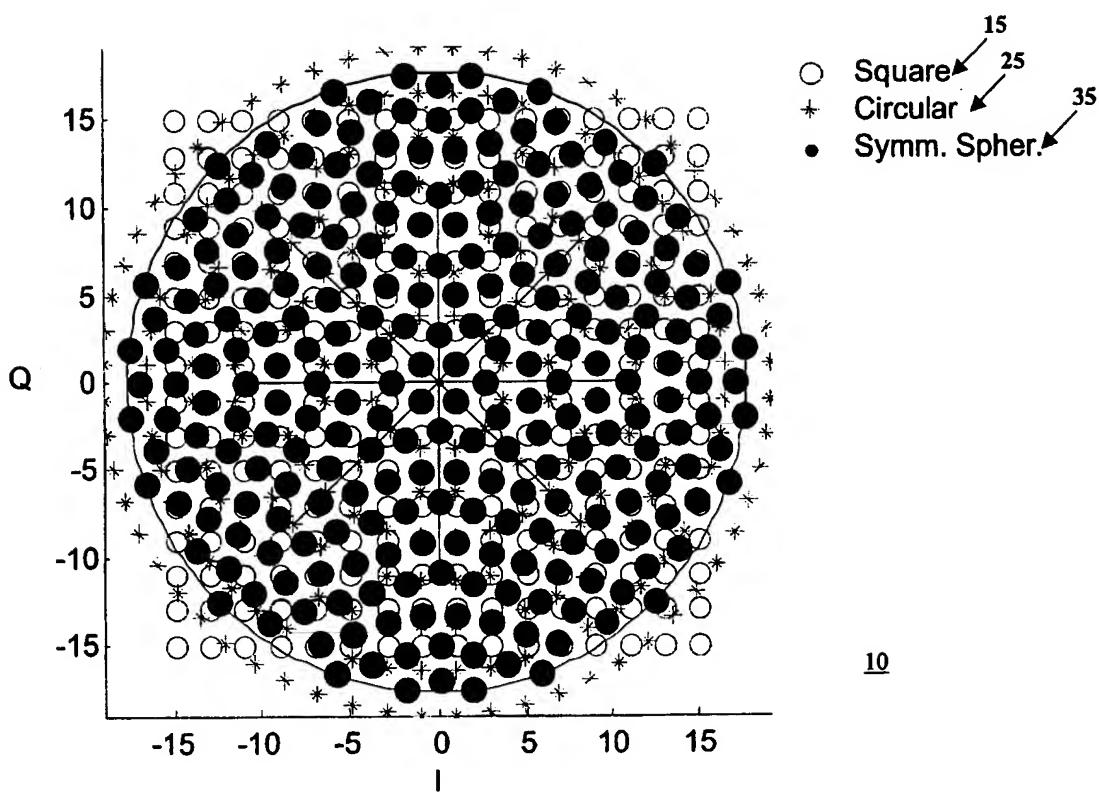


FIG. 3

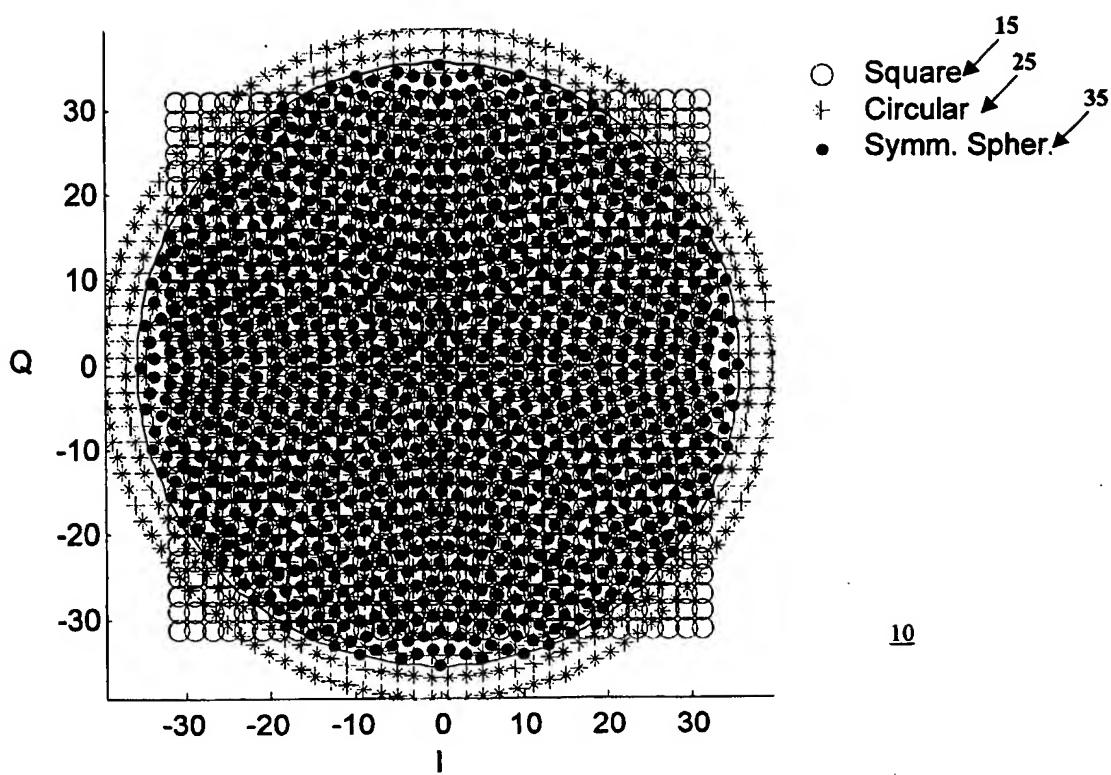


FIG. 4

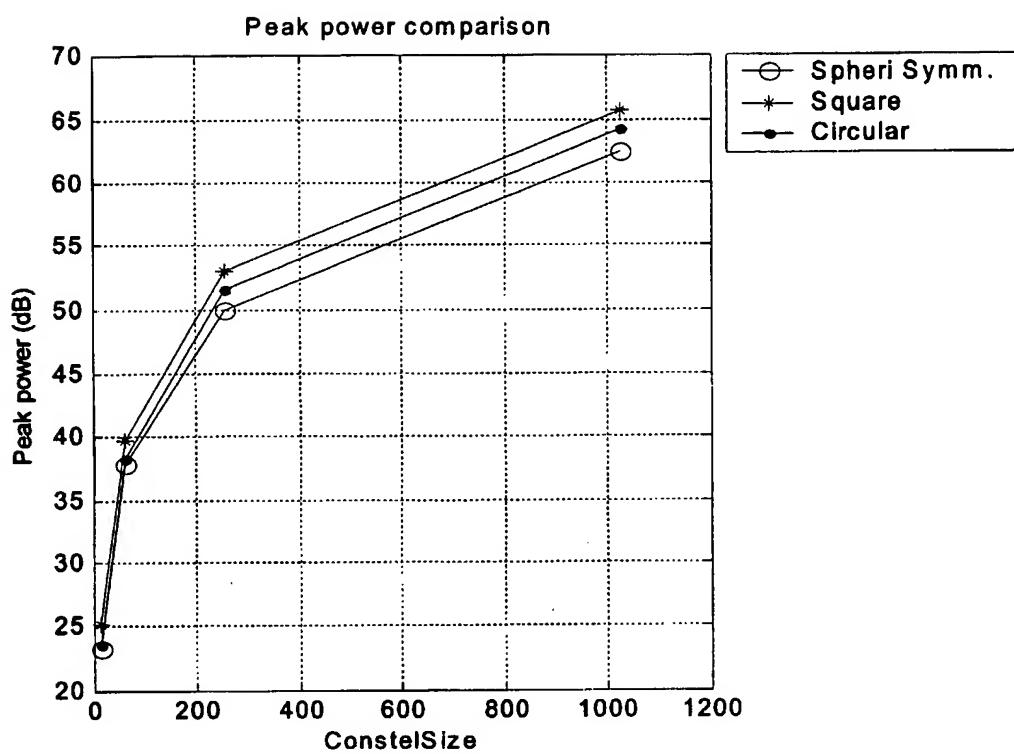


FIG. 5

FIG. 6a

QAM size	Square Constellation				Circular Constellation				Spherical Symmetric Constellation			
	Peak Power	Average Power	Average Power (dB)	PAR (dB)	Peak Power	Average Power	Average Power (dB)	PAR (dB)	Peak Power	Average Power	Average Power (dB)	PAR (dB)
16	18	10	10	2.5527	14.9282	11.666	10.6804	1.0597	14.7005	9.7162	9.87485	1.7984
64	98	42	16.2325	3.6795	78.77	50.5932	17.0409	1.97747	78.3406	40.4231	16.0663	2.8736
256	450	170	22.3045	4.2275	365.0888	206.2193	23.1433	2.4807	312.9502	180.2957	22.0492	2.9055
1024	1922	682	28.3378	4.4997	1588.2479	828.7357	29.1842	2.74221	1285.1433	638.8297	28.0539	2.9875

Note: minimum distance $d_{min} = 2$

FIG. 6b

QAM Constellation size	Peak Power Reduction (Sq./Sph) (dB)	Peak Power Reduction (Cir./Sph) (dB)	PAR Reduction (Sq./Sph) (dB)	PAR Reduction (Cir./Sph) (dB)
16	0.879403987	0.068753385	0.754368445	-0.7387
64	0.972391823	0.078526986	0.806195079	-0.8961
256	1.577372803	0.669244662	1.322102313	-0.4248
1024	1.816136635	0.904968304	1.532143876	-0.2253

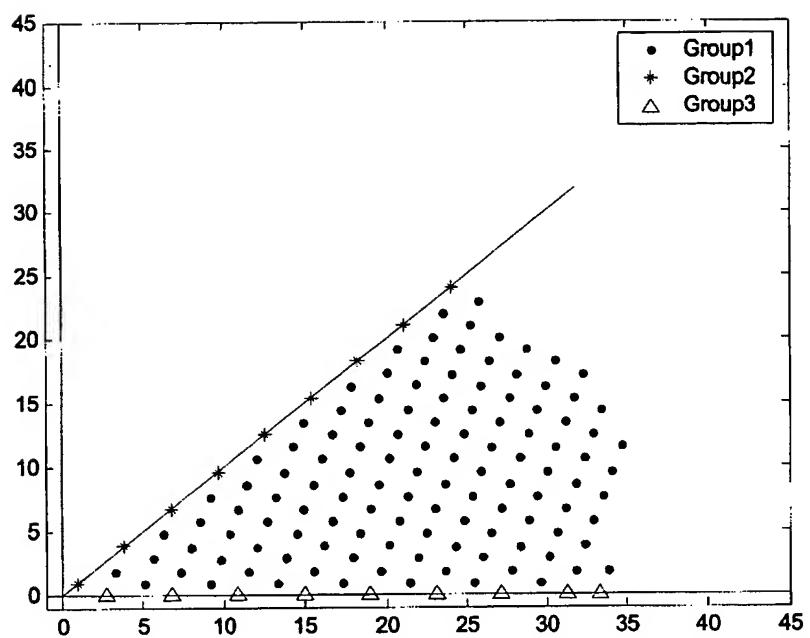


FIG. 7

FIG. 8

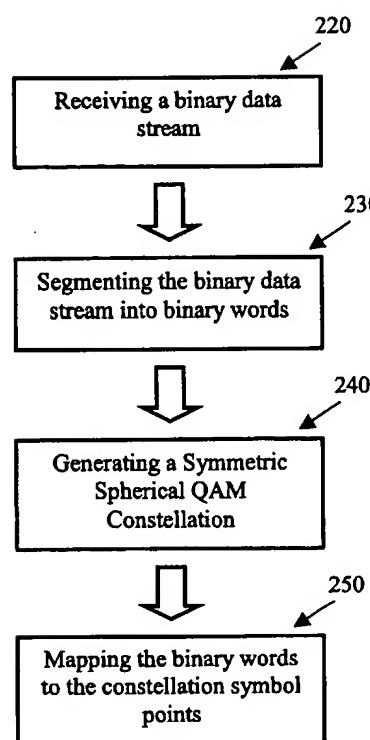


FIG. 9

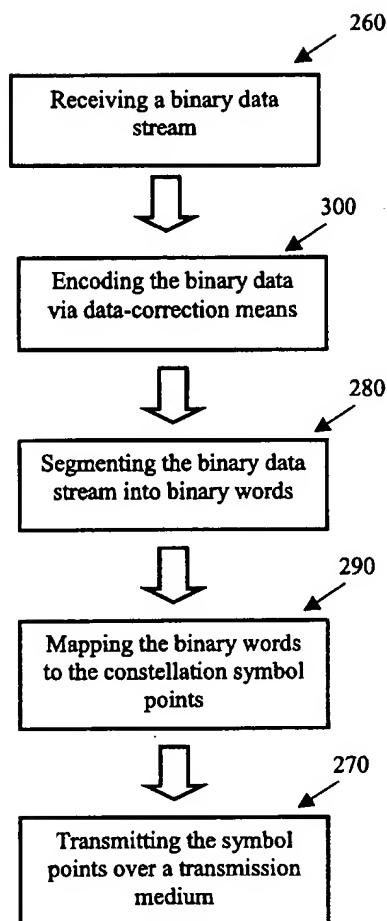


FIG. 10

